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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

A II		O N MI - U - of Transmitted of International
Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/EP 03/11063	International filing date (day/mo	onth/year) Priority date (day/month/year) 21.10.2002
International Patent Classification (IPC) or	national classification and IPC	,
B65D41/48		
Applicant		
UNILEVER N.V.		
This international preliminary ex- Authority and is transmitted to the	amination report has been prep e applicant according to Article	pared by this International Preliminary Examining e 36.
2. This REPORT consists of a tota	of 4 sheets, including this cov	ver sheet.
been amended and are the	anied by ANNEXES, i.e. sheet e basis for this report and <i>l</i> or sh on 607 of the Administrative In:	is of the description, claims and/or drawings which have leets containing rectifications made before this Authority structions under the PCT).
These annexes consist of a tota	l of 3 sheets.	
3. This report contains indications	rolating to the following items:	
_	relating to the following fromo.	
I ⊠ Basis of the opinion II □ Priority		
	of oninion with regard to novelt	y, inventive step and industrial applicability
IV Lack of unity of inve		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
V ⊠ Reasoned statemen		gard to novelty, inventive step or industrial applicability; ent
VI Certain documents		
VII Certain defects in th	e international application	
VIII Certain observation	s on the international application	n
Date of submission of the demand	Dat	te of completion of this report
19.03.2004	22	.02.2005
Name and mailing address of the Internat preliminary examining authority:		thorized Officer
European Patent Office - F NL-2280 HV Rijswijk - Pay Tel. +31 70 340 - 2040 Tx:	s Bas Fo	ournier, J
Fax: +31 70 340 - 3016	Tel	lephone No. +31 70 340-1031

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/11063

l.	Basi	s of	the	re	port
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Desc	cription, Pages	
	1-12		as originally filed
	Clai	ms, Numbers	
	1-15	·	received on 22.11.2004 with letter of 19.11.2004
	Drav	wings, Sheets	
	1/3-3	3/3	as originally filed
2.	With lang	regard to the langua uage in which the inte	ge, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.
	The	se elements were ava	allable or furnished to this Authority in the following language: , which is:
		the language of a tra	nslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of publi	cation of the international application (under Rule 48.3(b)).
		the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).
3.	With	n regard to any nucle rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inter	rnational application in written form.
		filed together with the	e international application in computer readable form.
		furnished subsequen	ntly to this Authority in written form.
		furnished subsequer	ntly to this Authority in computer readable form.
		The statement that the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.
		The statement that the listing has been furnitude.	he information recorded in computer readable form is identical to the written sequence ished.
4.	The	e amendments have re	esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:

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5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N) Yes: Claims 1-15

No: Claims

Inventive step (IS) Yes: Claims 1-15

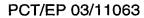
No: Claims

Industrial applicability (IA) Yes: Claims 1-15

No: Claims

2. Citations and explanations

see separate sheet



Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Claim 1:

Nearest prior art: D1:US-B1-6 260 723

Document D1 discloses a plastic container suitable for aseptic packaging of microbiologically sensitive food products. It comprises an injection blowmoulded container body and neck. The container is closed by a snap-on closure.

Document D1, which is considered to represent the most relevant state of the art, discloses a container from which the subject-matter of claim 1 differs in that the snap-on closure comprises a peripheral skirt with a ridge, intended for engagement with the inner surface of the neck wherein the free outer diameter of the ridge is slightly higher than the free inner diameter of the neck, the snap-on closure and the neck comprising means for substantially fixing the ridge in the axial direction of the neck when the container is closed.

The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may therefore be regarded as providing a container in which the sealing surface is protected against damage. This sealing surface includes the edge of the neck of the container and the annular lip of the closure.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons: This problem is not mentioned in the available prior art. Moreover, part of this solution is disclosed in document D2, FR-A-2 744 100, but the objet of D2 is to avoid undesired opening of the container if the cap is pushed out by an axial force.

Claims 2-14 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

Claim 15 relates to the use of a plastic container according to any of claims 1-14 and meets the requirements of the PCT with respect to novelty and inventive step.

Claims

- 1. Plastic container suitable for aseptic packaging of microbiologically sensitive food products comprising an injection blowmoulded container body (1) and neck (2) and a closure (3), wherein the closure (3) is a snap-on closure (3), characterized in that the snap-on closure (3) comprises a peripheral skirt (4) with a ridge (5), intended for engagement with the inner surface (6) of the neck (2) wherein the free outer diameter of the ridge (5) is slightly higher than the free inner diameter of the neck, characterised in that the snap-on closure (3) and the neck comprise means (7,8) for substantially fixing the ridge (5) in the axial direction of the neck, when the container is closed.
- 2. Container according to claim 1, wherein the tolerance of movement of the ridge (5) in the axial direction of the neck, when the container is closed, is smaller than the height of the contact surface between the ridge and the inner surface of the neck.
- 3. Container according to claim 1 or 2, wherein the neck has an inner surface (6), having no grooves having a width of 0.5 μ m or larger.
- 4. Container according to any of claims 1-3, wherein the Shore D hardness of the material of the ridge (5) is lower than the Shore D hardness of the material of the neck (2).
- 5. Container according to claim 4, wherein the Shore D hardness of the material of the ridge (5) is 65 or smaller and the Shore D hardness of the material of the neck (2) is 70 or higher.

REPLACED BY ART 34 AMDT

- 6. Container according to any of claims 1-5, wherein the container is provided with a foil around the bottle covering large part of the body and the neck of the bottle, but not the cap.
- 7. Container according to claim 6, wherein the foil comprises oriented polystyrene.
- 8. Container according to any of claims 1-7, wherein the snapon closure has a hinge (9).
- 9. Container according to claim 8, wherein the hinge (9) is a click-hinge (9).
- 10. Container according to any of claims 1-9, wherein the snapon closure comprises a circumferential tear-off strip (10).
- 11. Container according to any of claims 1-10, wherein the material of the ridge substantially consists of linear low-density polyethylene (LLDPE).
- 12. Container according to any of claims 1-11, wherein the container is a bottle.
- 13. Container according to any of claims 1-13 filled with a sterilised or pasteurised microbiologically sensitive food product.
- 14. Container according to claim 14, wherein the microbiologically sensitive food product has a pH between 6 and 8.



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15. Plastic container comprising an injection blowmoulded container body (1) and neck (2) and a closure (3), wherein the closure (3) is a snap-on closure (3), filled with a sterilised or pasteurised microbiologically sensitive food product having a pH between 6 and 8.



INTERNATIONAL SEARCH REPORT

Interna	Application No
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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B65D41/48

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC\ 7\ B65B\ B65D$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the re	levant passages	Relevant to claim No
Υ	US 6 260 723 B1 (BERGHOLTZ LARS) 17 July 2001 (2001-07-17) the whole document		1-3,6-14
Υ	FR 2 744 100 A (ASTRA PLASTIQUE) 1 August 1997 (1997-08-01) cited in the application the whole document		1-3,6-14
Α	FR 2 820 110 A (VALOIS SA) 2 August 2002 (2002-08-02) claim 4; figures		1
A	FR 2 294 936 A (BEHRINGWERKE AG) 16 July 1976 (1976-07-16) cited in the application figures		1
X Furth	ner documents are listed in the continuation of box C.	X Patent family members are listed i	n annex.
"A" docume consid "E" earlier d filing d "L" docume which i citation "O" docume other n "P" docume	nt which may throw doubts on priority claim(s) or is clied to establish the publication date of another i or other special reason (as specified) ant referring to an oral disclosure, use, exhibition or	 "T" later document published after the Inter or priority date and not in conflict with the clied to understand the principle or the invention "X" document of particular relevance; the clicannot be considered novel or cannot involve an inventive step when the document of particular relevance; the clicannot be considered to involve an invide an inventive and occument is combined with one or moments, such combination being obvious in the art. "&" document member of the same patent for the click or priority of the same patent for priority date and the click of the click of	the application but ony underlying the alimed invention be considered to exument is taken alone almed invention entive step when the re other such docusto a person skilled
Date of the a	actual completion of the international search	Date of mailing of the international sea	rch report
9	February 2004	17/02/2004	
tame and n	nalling address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo ni, Fax: (+31–70) 340–3016	Authorized officer Fournier, J	

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Interna	l Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 4 699 301 A (BLAKE WILLIAM S) 13 October 1987 (1987-10-13) column 2, line 9 - line 13 column 4, line 21 - line 25; figures χ 15

INTERNATIONAL SEARCH REPORT

mation on patent family members

International Application No PC 03/11063

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6260723	B1	17-07-2001	DE AU WO EP JP	19645263 A1 4780197 A 9819930 A1 0936997 A1 2001503356 T	07-05-1998 29-05-1998 14-05-1998 25-08-1999 13-03-2001
FR 2744100	Α	01-08-1997	FR	2744100 A1	01-08-1997
FR 2820110	Α	02-08-2002	FR EP WO	2820110 A1 1355825 A1 02060760 A1	02-08-2002 29-10-2003 08-08-2002
FR 2294936	Α	16-07-1976	BE CH DK FI FR IT LU NL	836688 A1 595255 A5 569075 A 753494 A 2294936 A1 1050077 B 74021 A1 7514451 A	16-06-1976 15-02-1978 17-06-1976 17-06-1976 16-07-1976 10-03-1981 11-11-1976 18-06-1976
US 4699301	Α	13-10-1987	NONE		